

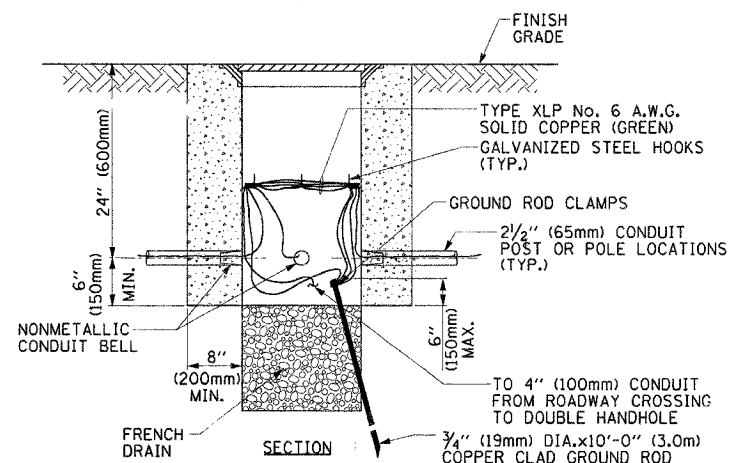
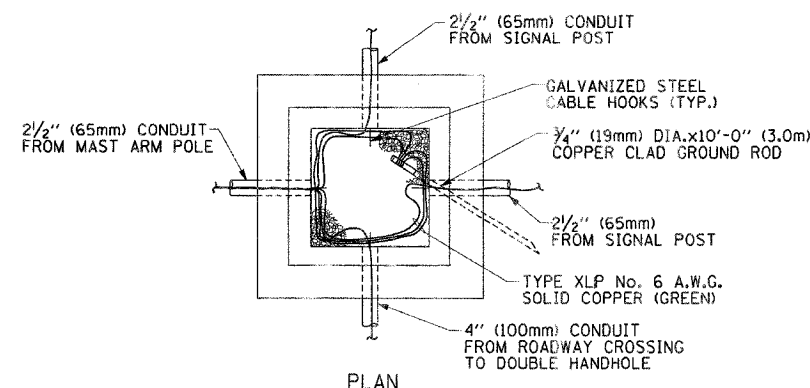
ROUTE	SECTION	COUNTY	SHEET	SHEETS
FAU 2657	081	LAKE	31	92
93-00081-04-CH		ILLINOIS	BUFFALO GROVE ROAD	

Contract No. 83656

# NOTES:

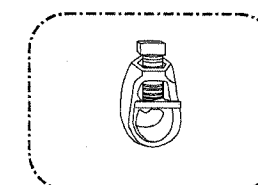
## GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR, TYPE XLP, No. 6 A.W.G., SOLID COPPER TO BE INSTALLED IN GALVANIZED STEEL CONDUIT RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE CLAMPED (SEE DETAIL). GROUND RODS SHALL BE 3/4" DIA.x10'-0" (19mmx3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT THOSE HANDHOLE LOCATIONS, ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. ALL GROUNDING COMPONENTS SHALL BE AS SPECIFIED, OR AS APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AND SHALL MEET ALL REGULATORY CODES AND STANDARDS.
3. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.



NOTE: TRAFFIC SIGNAL DESIGNS WILL VARY. REFER TO THE TRAFFIC SIGNAL INSTALLATION PLANS FOR EXACT CONFIGURATIONS.

## GROUNDING - HANDHOLE



3/4" (19mm) HEAVY-DUTY GROUND ROD CLAMP

## NOTES:

- ALL CLAMPS SHALL BE BRONZE
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES; 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
- 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES

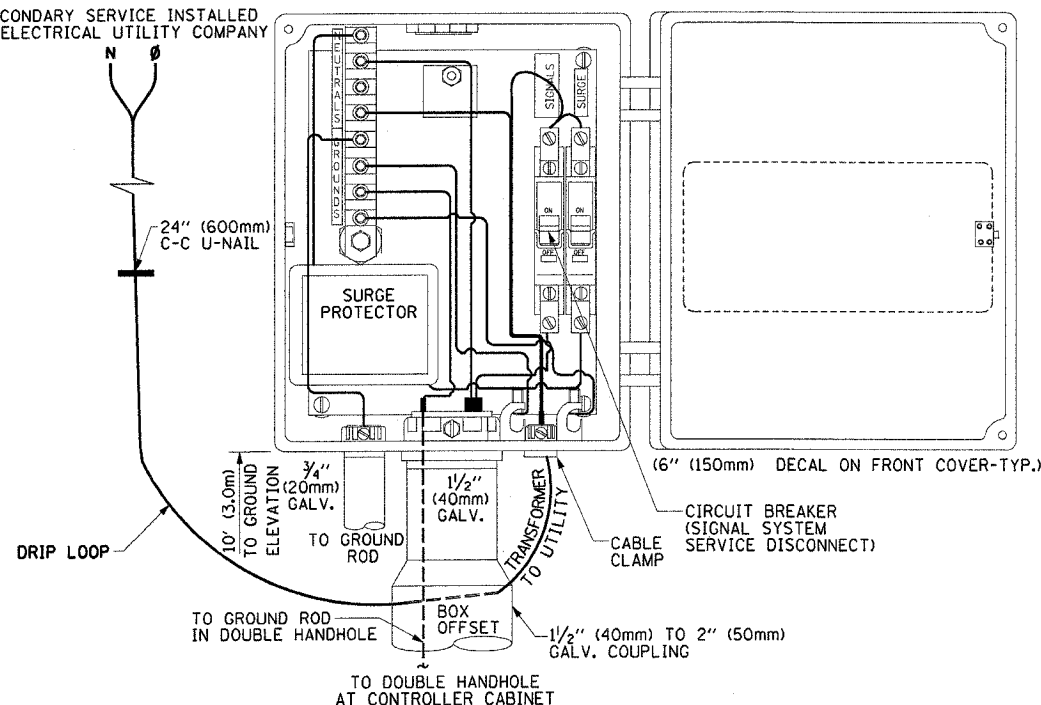
## GROUNDING CLAMP DETAIL

6" (150mm) DECAL ON FRONT COVER  
(TO BE INSTALLED BY OTHERS)



LAKE COUNTY DIVISION OF TRANSPORTATION  
METRIC PLAN

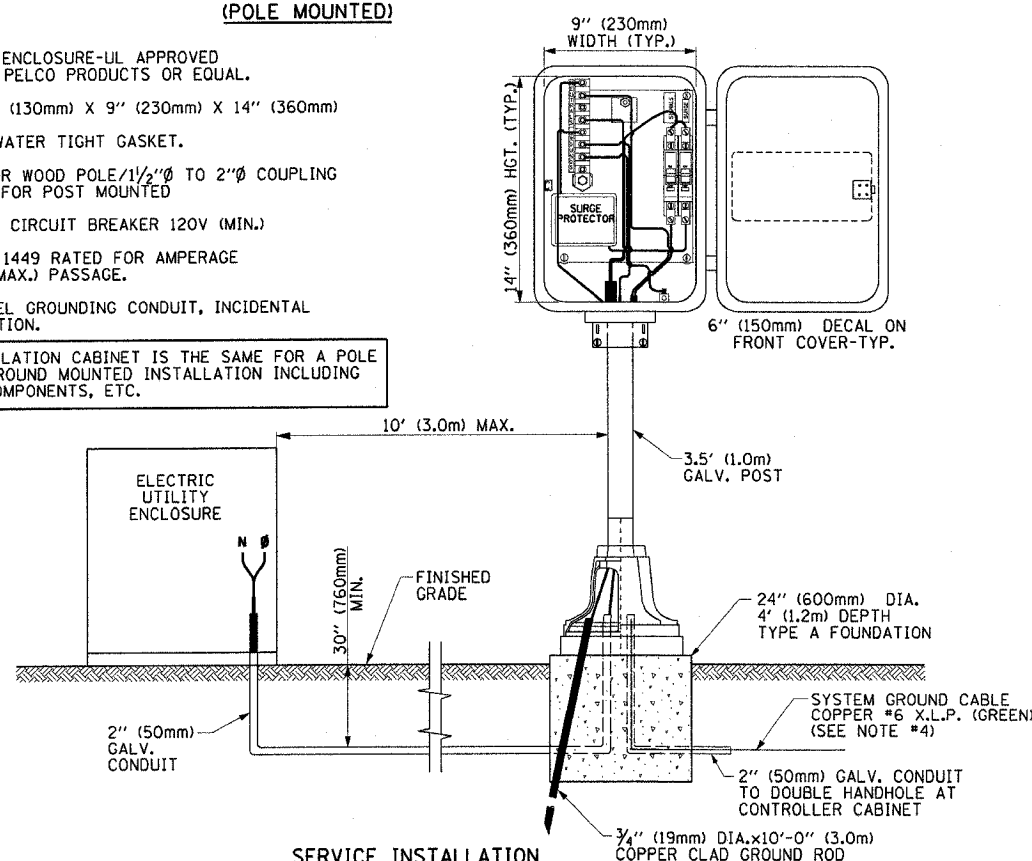
SECONDARY SERVICE INSTALLED BY ELECTRICAL UTILITY COMPANY



## SERVICE INSTALLATION (POLE MOUNTED)

- NEMA-CAST ALUMINUM ENCLOSURE-UL APPROVED AS MANUFACTURED BY PELCO PRODUCTS OR EQUAL.
- INSIDE DIMENSIONS 5" (130mm) X 9" (230mm) X 14" (360mm)
- LOCKING DOOR, WITH WATER TIGHT GASKET.
- BRACKET MOUNTING FOR WOOD POLE/1 1/2" DIA. TO 2" DIA. COUPLING AND MOUNTING PLATE FOR POST MOUNTED
- 60 AMP (MIN.) SIGNAL, CIRCUIT BREAKER 120V (MIN.)
- SURGE PROTECTOR UL 1449 RATED FOR AMPERAGE REQUIREMENTS-400V (MAX.) PASSAGE.
- 3/4" DIA. GALVANIZED STEEL GROUNDING CONDUIT, INCIDENTAL TO SERVICE INSTALLATION.

NOTE: SERVICE INSTALLATION CABINET IS THE SAME FOR A POLE MOUNTED OR GROUND MOUNTED INSTALLATION INCLUDING THE WIRING, COMPONENTS, ETC.



## SERVICE INSTALLATION (GROUND MOUNTED)

P:\projects\01600\Traffic\Sheet\TS06-SRVS.dgn  
04/15/2004  
08:44:49 AM